



272 N. Front Street, Suite 204
Wilmington, NC 28041
(910) 218-7100 Fax (910) 781-4869

November 01, 2018

Ms. Tara MacPherson
N.C. Division of Coastal Management (NCDCM)
127 Cardinal Drive Extension
Wilmington, NC 28468

Re: CAMA Major Permit Application – Additional Information
Maintenance Dredging of Mary's & Turtle Creek, Sunset Beach

Dear Ms. MacPherson,

On behalf of the Town of Sunset Beach, please find enclosed additional submittal material in reference to the above referenced project. The additional information is provided to assist with the CAMA Major Permit review and includes the following documents in digital and hardcopy format:

- Revised Project Narrative;
- Revised Permit Drawings;
- Consent of Use Acknowledgement for the WRC boat ramp facility for material transfer;
- Consent of Use Acknowledgement for the upland landfill facility for material disposal;
- Revised Agent Authorization; and,
- Revised MP-1 & MP-2 forms.

These documents update the applicants contact information and detail the work will be completed by a mechanical dredge plant, instead of hydraulic. The dredge material will be transferred to a dump truck or other hauling equipment at the Sunset Beach NC WRC boat ramp facility for transport and disposal an upland landfill. This change comes as a result of the USACE not allowing material placement from non-federal projects in their managed spoil islands. Please note, no changes are proposed for the dredge footprint or template.

To the best of my knowledge, the information provided herein meets the compliance requirements of the N.C. Environmental Policy Act (NCGS 113A 1010).



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We appreciate the Division's assistance and guidance in preparing the enclosed application and look forward to a favorable review. As the authorized agent for the Town, please feel free to contact me if you have any questions or need additional information.

Sincerely,

MOFFATT & NICHOL

Robert Neal, P.E.
Senior Coastal Engineer

Enclosures

cc: Hiram Marziano, Town of Sunset Beach
Dawn York, Moffatt & Nichol

**Town of Sunset Beach Navigation Project
Maintenance Dredging of Mary's & Turtle Creek
Project Narrative
(Revised October 2018)**

Introduction

The Town of Sunset Beach proposes to perform maintenance dredging at both Mary's Creek and Turtle Creek to provide enhanced navigation access to the Atlantic Intracoastal Waterway (AIWW). The maintenance operations maintain consistency with previous operations authorized by the North Carolina Division of Coastal Management (DCM) and the US Army Corps of Engineers (USACE). The work also falls within a larger scope being considered by the Town to help maintain navigation access to the residential canals along the eastern portion of Sunset Beach.

Mary's Creek and Turtle Creek connect to the AIWW near the entrance to Jinks Creek and the Sunset Beach causeway. The creeks lie adjacent to public and private properties within the Town of Sunset Beach (Brunswick County) and provide navigation access to residents and guests of the area. Figure 1 shows a project location map and Figure 2 shows a detailed map of the project area.

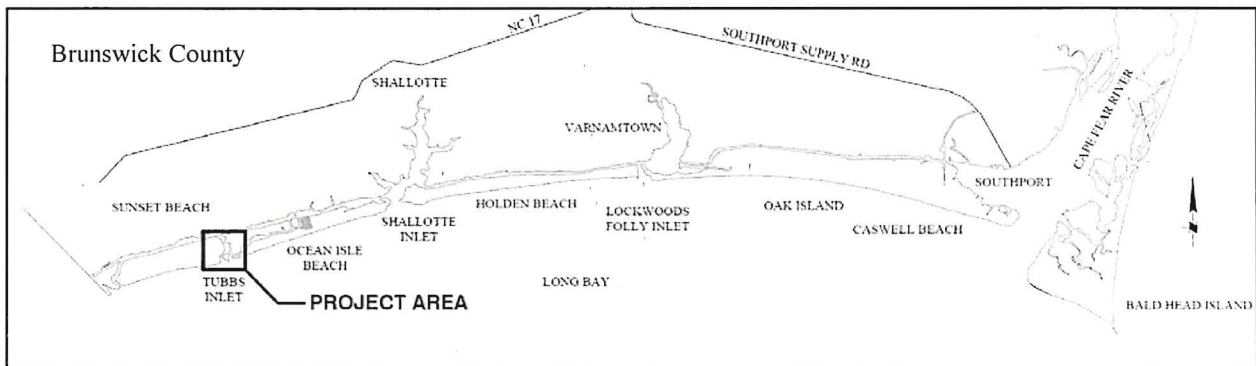


Figure 1. Mary's & Turtle Creek Location Map

Project Purpose, Need & Scope

In recent years, Mary's and Turtle Creeks have been subject to infilling from adjacent upland runoff and erosion as well as shoaling from wind and wave action. As such, both creeks have an average depth of -1 ft MLW (mean low water). The proposed maintenance dredging will restore average bottom depths to between -3 ft & -5 ft MLW by removing approximately 8,100 cubic yards (CY) from Mary's Creek and 7,800 CY from Turtle Creek. The dredge template provides a 1-ft tolerance below the referenced design depths to allow the contractor room to maneuver the equipment in a manner sufficient to complete the work. Therefore, the maximum dredge depth for Mary's and Turtle Creek equals -6 MLW near the creek entrances, and decreases to -4 ft MLW near the landward terminus of each creek. (The dredge templates tie into the AIWW at the -6-ft contour and do not exceed the depths of the AIWW.) Attachment A provides detailed drawings of the proposed work.

Construction Methodology

The proposed dredge spoil contains a significant amount of fines and does not meet the NC standards for beach compatibility. Visual assessments helped determine the beach compatibility; however, the creeks have been classified in previous maintenance events as non-compatible and that condition would not be expected to change. Attachment B shows a chemical analysis completed in November 2016 to verify the

lack of any hazardous materials. The attachment also shows photographs of the collected sediment to support the non-compatible determination.

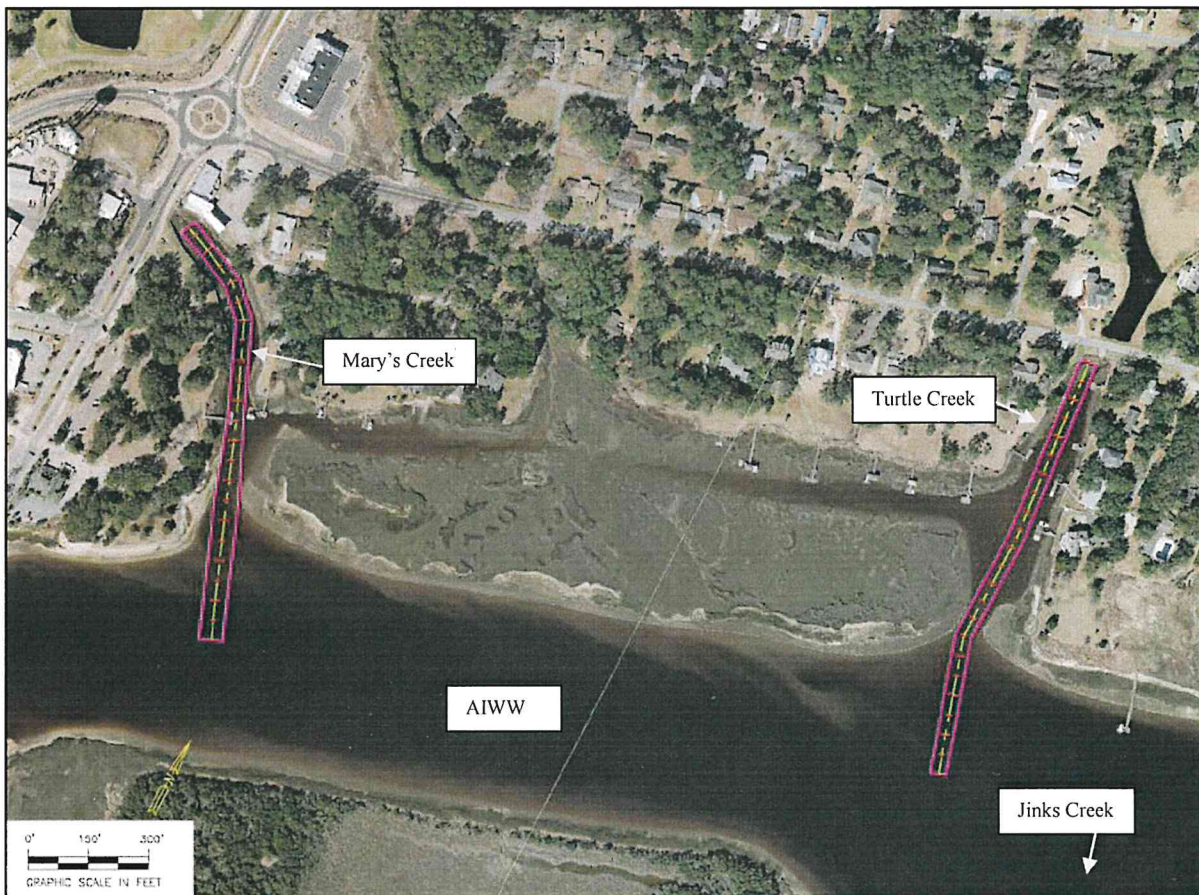


Figure 2. Mary's Creek & Turtle Creek Project Area

Dredging operations will be conducted by a clamshell or bucket dredge / excavator between October 1 and March 31. Dredging activities are expected to extend through day light hours but will not entail night time operations. Material will be dredged from the respective waterbody and placed on a barge or other floating work plant. The material will be transported to an offloading site designated at the Sunset Beach boat ramp, located adjacent to Mary's Creek in the AIWW. The material will then be placed in a truck or carrying apparatus for transportation to the upland landfill facility. A backhoe or excavator will move the material from the barge to the truck or other hauling equipment. The trucks or hauling equipment shall be configured to prohibit spillage during material transport. The roadways or travel ways used for material transport shall be inspected during and after each delivery to the landfill site. Any spillage noted shall be immediately cleaned and removed from the roadways. In addition, any equipment found to be continuously leaking material shall be removed from the project until such time repairs or modifications can be made to facilitate clean and spill fill material transport.

Figure 3 shows the material offloading site at the Sunset Beach boat ramp. The North Carolina Wildlife Resource Commission (WRC) owns the boat ramp and has consented to using the site for permitting purposes. Attachment C provides a letter from WRC acknowledging use of the boat ramp facility for permitting purposes. The boat ramp will be closed to the public for the duration of the project in order to

avoid potential damages or accidents. Turbidity curtains shall also be effectively maintained surrounding the offloading site during times of material transfer. The curtains will be positioned to capture any sediment disposition spilling from the offloading operations. Prior to construction, the WRC and the Town will need to finalize any potential use agreements in order for the project to utilize the boat ramp as an offloading site. The offloaded material will be transported directly to a permitted landfill facility on Old Georgetown Road for final placement. Figure 4 provides a location map of the landfill facility. In addition, Attachment C contains a letter from the landfill facility owner acknowledging the site will be used for material placement from the dredging event. Prior to construction, DCM representatives will be invited to inspect the material offloading site (boat ramp) and landfill facility.



Figure 3. Material Offloading Site (Sunset Beach Boat Ramp)

Consistency with Previous Permits

The proposed work maintains consistency with permit 22-02 issued by the DCM in November 2002 for the maintenance dredging of Mary's and Turtle Creek. DCM also issued a CAMA Permit in October 1987 (renewed February 10, 1992 to Joe L. Peed (CAMA # 241-87) and in March 1987 (CAMA # 73-87) to perform similar maintenance dredging efforts. Attachment E provides a copy of the referenced permits.

The dredge templates for both creeks follow a 'box cut' design as proposed in the 2002 permit. The 'box cut' consist of vertical sides as opposed to a slope consistent with the sediments angle of repose. The previous permits most likely offered the box cut to limit the dredge disturbance area near the existing marsh grass. However, the channel sides should equilibrate to an expected 3:1 slope and cause the adjacent creek bottom to slough into the maintained channel.



Figure 4. Landfill Facility for Material Final Placement

Environmental Concerns

The North Carolina Division of Marine Fisheries (DMF) has designated Mary's and Turtle Creek as a Primary Nursery Area (PNA) due to their potential to support shellfish and juvenile fish species. In response to concerns pertaining to potential dredging impacts for any shellfish in the work area, the Town authorized a survey in October 2016 to identify any shellfish presence. The survey found significant resources within both creeks but they were generally located outside of the dredge footprints. The survey located five (5) clams within the dredge area of Mary's Creek, but no other shellfish resources were identified in either Mary's or Turtle Creeks dredge footprint. Attachment F provides the shellfish report completed for Mary's and Turtle Creek.

Strands of *Spartina alterniflora* with scattered locations of *Spartina* also exist along the intertidal and supratidal regions of each creek. These grasses generally provide suitable habitat for juvenile fish. Attachment G provides a map showing the waterward extents of the marsh grasses as identified in September 2017. Permit 22-02 (Additional Condition 6) required the dredging footprint to remain a minimum of 20-ft from the edge of any coastal wetland or marsh. Analyzing the current conditions shows the marsh grasses have expanded towards the dredge areas since the last maintenance event. Currently, close to 400 ft² of the marsh grasses have been identified within the dredging footprint. Furthermore, approximately 8.9 % (Turtle Creek) to 13.5% (Mary's Creek) of the dredge footprint falls within 10 feet of the current salt marsh limits. Approximately 12.8% (Turtle Creek) to 44.7% (Mary's Creek) lies within 20 feet of the marsh extents.

To maintain consistency with the previous permit and minimize the potential for adverse impacts to the marsh grasses, the current project proposes to maintain the 20-ft buffer from the dredge area. The 20-ft buffer will allow the box-cut channel adequate space to equilibrate without eroding the coastal marshes. Prior to construction the marsh boundary will be mapped for record keeping. A copy of the mapping results will be provided to DCM and will designate the 20-ft marsh buffer. During construction the dredge shall

be prohibited from entering the buffer zone. Attachment G shows the proposed 20-ft buffer based on the marsh conditions as identified in September 2017.

Dredging activities will also be restricted to October 1 through March 31 for additional protection towards potential impacts. The cooler months generally offer a lower risk of environmental activity. This construction timeframe maintains consistency with the previous permits authorized for the work, which appear to have been generally successful.

The applicant has also conducted additional studies to evaluate the potential impacts to the managed or endangered species that may be impacted by the project. Attachment H provides an Essential Fish Habitat (EFH) assessment and Attachment I provides a Biological Assessment (BA) for the project. Generally, the referenced reports support the project should not adversely impact any threatened or managed species. The reports include additional precautions for the maintenance project including the FWS recommended guidelines for avoiding impacts to the West Indian Manatee and recommendations provided by NOAA to help protect sea turtles and smalltooth sawfish. Attachment J shows the manatee guidelines while Attachment K provides the sea turtle and smalltooth sawfish construction recommendations

Historic Resources

The applicant has also contacted the State Historic Preservation Office (SHPO) to inquire on any known historic resources in the area such as shipwrecks or archeological artifacts. The inquiry did not identify any known resources with the potential to be impacted by the project. Attachment L provides the written response from SHPO.

Summary

The Town of Sunset Beach intends to maintenance dredge Mary's and Turtle Creek to restore navigational access to the residential canal systems. The project provides a key element for the Town and residents to manage the established navigational corridors on the east end of Sunset Beach. The proposed work follows the same dredge footprint as previously authorized in 2002 and 1987 for the maintenance operations. The dredge material will be mechanically dredged and hauled to an upland landfill facility. Approximately 16,000 CY will be removed from the proposed work area to restore navigation depths. The maximum dredge depth will range from -6 MLW to -4 MLW (inclusive of a 1 ft. overdredge allowance) progressing from the AIWW to the channel terminus. The channel widths vary from 60-ft to 40-ft in Mary's Creek but maintain a constant 40-ft width in Turtle Creek. The channels will be 'box' cut to help minimize the impact area.

The proposed work will follow additional guidelines and recommendations to avoid or further minimize the potential for environmental impacts during construction. This includes providing a 20-ft buffer between the dredge area and any coastal marsh, in addition to constructing during the cooler winter months of October through March. The construction process will also follow the recommended guidelines provided by FWS and NOAA for avoiding or minimizing potential impacts to manatee, sea turtle, and small tooth sawfish.

Attachments

- A. Permit Drawings
- B. Chemical Analysis of Dredge Material
- C. Acknowledgment of Use for WRC Boat Ramp and Upland Landfill Facility
- D. (Not Used)
- E. Previous Permits Identified for Mary's & Turtle Creek
- F. Mary's & Turtle Creek Shellfish Report
- G. Planview of Marsh Extents
- H. Essential Fish Habitat Assessment
- I. Biological Assessment
- J. Avoidance Guidelines for West Indian Manatee
- K. Sea Turtle & Smalltooth Sawfish Construction Recommendations
- L. State Historic Preservation Office Historic Resource Review

APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information			
Business Name Town Of Sunset Beach		Project Name (if applicable) Town of Sunset Beach Navigation Project; Maintenance Dredging of Mary's & Turtle Creek	
Applicant 1: First Name Hiram	MI	Last Name Marziano	
Applicant 2: First Name	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 700 Sunset Blvd N.		PO Box	City Sunset Beach
		State North Carolina	
ZIP 28468	Country USA	Phone No. 910 - 579 - 6297 ext. 1014	FAX No. 910 - 579 - 1840
Street Address (if different from above)		City	State ZIP
			-
Email mharziano@sunsetbeachnc.gov			

2. Agent/Contractor Information			
Business Name Moffatt & Nichol			
Agent/ Contractor 1: First Name Robert	MI	Last Name Neal	
Agent/ Contractor 2: First Name	MI	Last Name	
Mailing Address 272 N. Front Street, Suite 204		PO Box	City Wilmington
		State NC	
ZIP 28401		Phone No. 1 910 - 218 - 7082 ext.	Phone No. 2 - - ext.
FAX No. 919 781 4869	Contractor #		
Street Address (if different from above)		City	State ZIP
			-
Email rneal@moffattnichol.com			

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3. Project Location				
County (can be multiple) Brunswick		Street Address 206 Sunset Blvd. North		State Rd. # n/a
Subdivision Name n/a		City Sunset Beach	State NC	Zip 28468 -
Phone No. 910 - 579 - 6297 ext. 1014		Lot No.(s) (if many, attach additional page with list)		
a. In which NC river basin is the project located? Lumber		b. Name of body of water nearest to proposed project Atlantic Intracoastal Waterway		
c. Is the water body identified in (b) above, natural or manmade? <input type="checkbox"/> Natural <input checked="" type="checkbox"/> Manmade <input type="checkbox"/> Unknown		d. Name the closest major water body to the proposed project site. Tubbs Inlet		
e. Is proposed work within city limits or planning jurisdiction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. Sunset Beach		

4. Site Description	
a. Total length of shoreline on the tract (ft.) 1,075 feet - Mary's Creek and 1,100 feet - Turtle Creek	b. Size of entire tract (sq.ft.) 2.2 acres
c. Size of individual lot(s) 2.38 acre Mary's, 0.52 acre Turtle, (If many lot sizes, please attach additional page with a list)	d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) n/a <input type="checkbox"/> NHW or <input type="checkbox"/> NWL
e. Vegetation on tract Spartina alterniflora and S. patens at various locations on the margin of the Creeks. The project will maintain a 20-ft dredging buffer from any coastal marsh to avoid any potential impacts to the wetland habitat.	
f. Man-made features and uses now on tract Fixed and floating docks, bulkheads, and the previously dredged creeks themselves.	
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Recreational (Park), commercial & residential	
h. How does local government zone the tract? Mary's Creek; Recreational- Institutional (RI-1), Mainland Business (MB-2) and Mainland Residential (MR-1); Turtle Creek - Mainland Residential (MR-2))	i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA If yes, by whom?	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(ii) Are there coastal wetlands on the site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
n. Describe existing wastewater treatment facilities. n/a	
o. Describe existing drinking water supply source. n/a	
p. Describe existing storm water management or treatment systems. n/a	

5. Activities and Impacts	
a. Will the project be for commercial, public, or private use?	<input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. Provide recreational navigation access through Mary's & Turtle Creek on the east side of Sunset Beach.	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Mechanical dredging equipment entailing an barge and excavator. Dredge spoil will be placed on a work barge and transported to a material offloading site. Excavators will then transfer the material to dump trucks or other hauling equipment for transfer to an upland landfill facility. Approx. 16,000 CY to be dredged and placed upland.	
d. List all development activities you propose. n/a	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Maintenance
f. What is the approximate total disturbed land area resulting from the proposed project?	2.2 <input type="checkbox"/> Sq.Ft or <input checked="" type="checkbox"/> Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
h. Describe location and type of existing and proposed discharges to waters of the state. Small quantities of dredge effluent can be expected to run-off from the work barge during material transport, otherwise the effluent will be contained within the hauling equipment.	
i. Will wastewater or stormwater be discharged into a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, will this discharged water be of the same salinity as the receiving water?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
j. Is there any mitigation proposed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, attach a mitigation proposal.	

<Form continues on back>

6. Additional Information

In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.

a. A project narrative.

b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.

c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.

d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.

e. The appropriate application fee. Check or money order made payable to DENR.

f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.

Name	Phone No.
------	-----------

Address

Name	Phone No.
------	-----------

Address

Name	Phone No.
------	-----------

Address

g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.

CAMA Permit 241-87, issued on February 10, 1982, Joe L. Peed

CAMA Permit 73-87, issued on March 27, 1987, Robert and Gladys Adams

CAMA Permit #22-02, issued on November 4, 2002 and modified on December 31, 2005, Town of Sunset Beach

SAWC087-N-010-0159 issued in 1987 by Wilmington District USACE.

h. Signed consultant or agent authorization form, if applicable.

i. Wetland delineation, if necessary.

j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner)

k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.


I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date October 25, 2018

Print Name Hiram J. Marziano, II

Signature



Please indicate application attachments pertaining to your proposed project.

☒ DCM MP-2 Excavation and Fill Information

☐ DCM MP-5 Bridges and Culverts

☐ DCM MP-3 Upland Development

☐ DCM MP-4 Structures Information

Form DCM MP-2

EXCAVATION and FILL

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. All values should be given in feet.

	Access Channel (NLW or NWL)	Canal	Boat Basin	Boat Ramp	Rock Groin	Rock Breakwater	Other (excluding shoreline stabilization)
Length	1,075 feet (Mary's) and 1,100 feet (Turtle)						
Width	40 feet (Turtle) and 40 to 60 feet (Mary's)						
Avg. Existing Depth	0 to 1 foot MLW				NA	NA	
Final Project Depth	4 to 6 feet MLW				NA	NA	

1. EXCAVATION

☐ This section not applicable

- a. Amount of material to be excavated from below NHW or NWL in cubic yards.
16,000 CY

- b. Type of material to be excavated.
Mixture of sand, silty sand, sandy silt, and silt. Not suitable for beach disposal.

- c. (i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
☐ CW ☐ SAV ☐ SB ☐ WL ☒ None

- d. High-ground excavation in cubic yards.
0 CY

(ii) Describe the purpose of the excavation in these areas:

2. DISPOSAL OF EXCAVATED MATERIAL

☐ This section not applicable

- a. Location of disposal area.
Upland landfill facility.

- b. Dimensions of disposal area.
<2 Ac

- c. (i) Do you claim title to disposal area?
☐ Yes ☒ No ☐ NA
(ii) If no, attach a letter granting permission from the owner.

- d. (i) Will a disposal area be available for future maintenance?
☒ Yes ☐ No ☐ NA
(ii) If yes, where?
Upland landfill facility

- e. (i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
☐ CW ☐ SAV ☐ SB ☐ WL ☒ None

- f. (i) Does the disposal include any area in the water?
☐ Yes ☒ No ☐ NA
(ii) If yes, how much water area is affected?

(ii) Describe the purpose of disposal in these areas:

3. SHORELINE STABILIZATION

(If development is a wood groin, use MP-4 – Structures)

☒ This section not applicable

- a. Type of shoreline stabilization:
☐ Bulkhead ☐ Riprap ☐ Breakwater/Sill ☐ Other: _____
- b. Length: _____
 Width: _____
- c. Average distance waterward of NHW or NWL: _____
- d. Maximum distance waterward of NHW or NWL: _____
- e. Type of stabilization material: _____
- f. (i) Has there been shoreline erosion during preceding 12 months?
☐ Yes ☐ No ☐ NA
 (ii) If yes, state amount of erosion and source of erosion amount information. _____
- g. Number of square feet of fill to be placed below water level.
 Bulkhead backfill _____ Riprap _____
 Breakwater/Sill _____ Other _____
- h. Type of fill material. _____
- i. Source of fill material. _____

4. OTHER FILL ACTIVITIES

(Excluding Shoreline Stabilization)

☒ This section not applicable

- a. (i) Will fill material be brought to the site?
 If yes, _____
- b. Dimensions of fill area _____
- c. Purpose of fill ☐ Yes ☐ No ☐ NA
 (ii) Amount of material to be placed in the water _____
- b. (i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
☐ CW ☐ SAV ☐ SB
☐ WL ☐ None

5. GENERAL

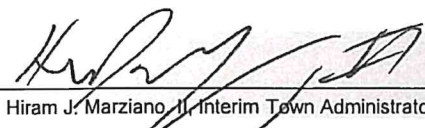
- a. How will excavated or fill material be kept on site and erosion controlled?
Material will be placed in an excavated sand mine / pit.
- b. What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?
Mechanical dredge (excavator) & hauling eq. (dump trucks)
- c. (i) Will navigational aids be required as a result of the project?
Yes Temporary Aids will be used during construction.
- d. (i) Will wetlands be crossed in transporting equipment to project site? No

November 6, 2018

Date

Maintenance Dredging of Mary's & Turtle Creek

Project Name


 Hiram J. Marziano, Jr. Interim Town Administrator / Planning Director (Applicant)

AGENT AUTHORIZATION FOR CAMA PERMIT APPLICATION

Applicant: Town of Sunset Beach, NC
Mailing Address: 700 Sunset Boulevard North
Sunset Beach, NC 28468
Phone Number: 910.579.6297 ext. 1014
Email Address: hmarziano@sunsetbeachnc.gov

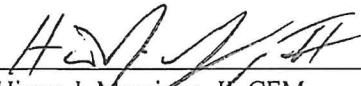
The Town of Sunset Beach has authorized: Moffatt & Nichol
as an Agent to act on the Town's behalf, for the purpose of applying for and obtaining all CAMA permits
necessary for the project known as:

Town of Sunset Beach Navigation Project:
Maintenance Dredging of Mary's & Turtle Creek.

The project location is: Sunset Beach, (Brunswick County), NC.

I further certify that I am authorized to grant, and do in fact grant permission to Division of Coastal
Management staff, the Local Permit Officer and their agents to enter on the aforementioned lands in
connection with evaluating information related to this permit application.

Town Representative:

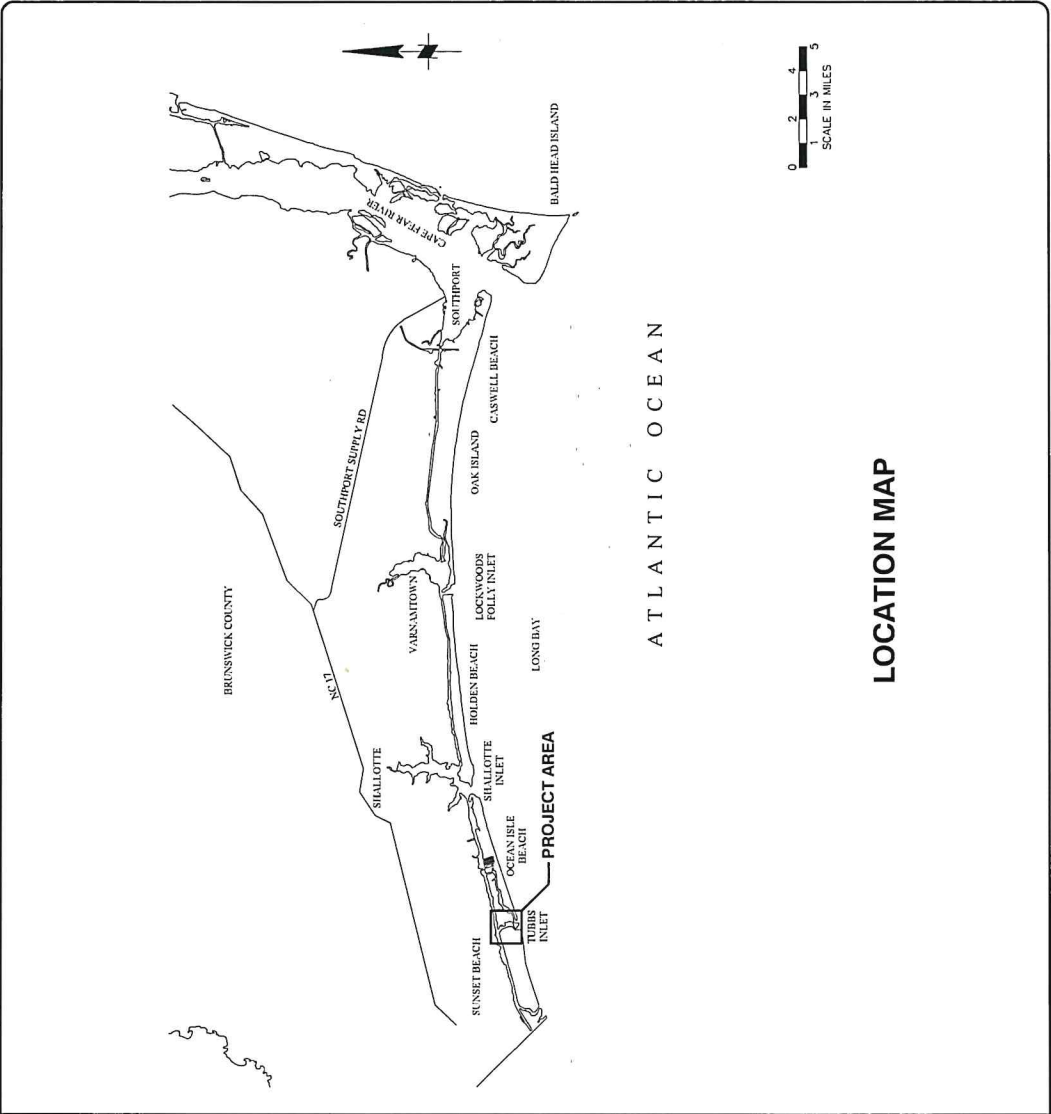
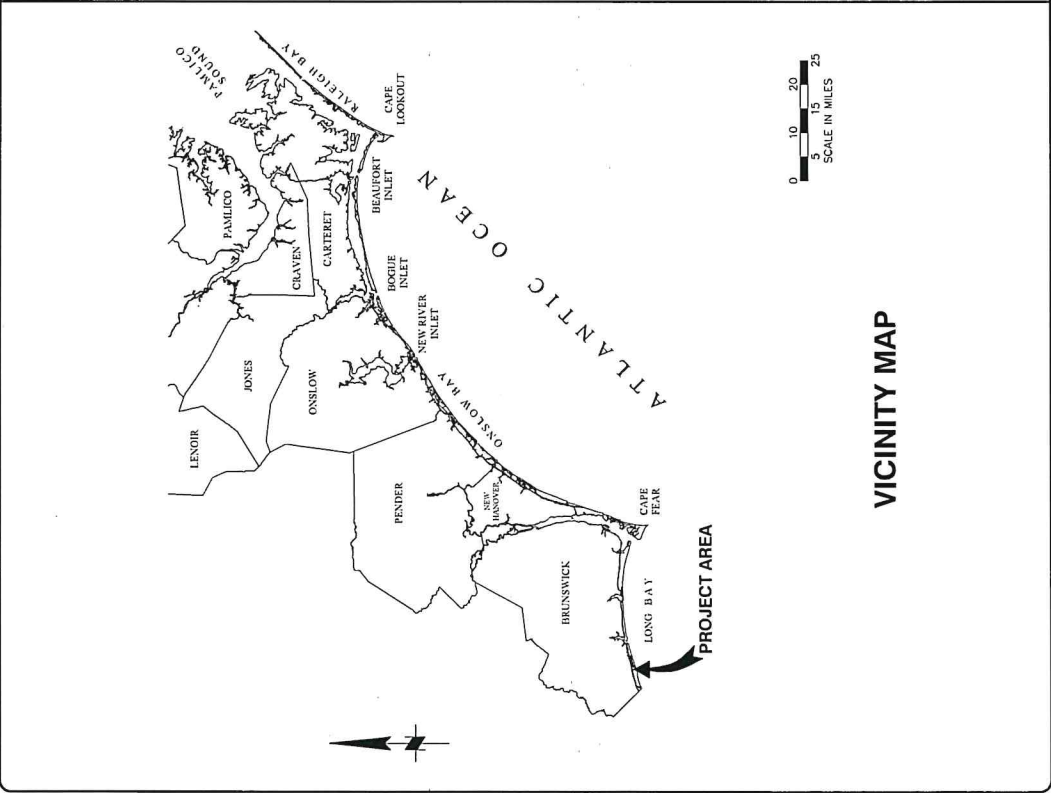


Hiram J. Marziano, H, CFM
Interim Town Administrator / Director of Planning

10/29/18

Date

This certification is valid through January 1, 2020



PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF
MARY'S AND TURTLE CREEK

DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: OCTOBER 2018

SHEET TITLE:
VICINITY AND LOCATION MAPS

SHEET
1
OF
7

UPLAND MATERIAL PLACEMENT SITE (LANDFILL FACILITY)

- THE UPLAND MATERIAL PLACEMENT SITE SHALL BE INSPECTED AND APPROVED ON-SITE BY A DIVISION OF COASTAL MANAGEMENT (DCM) REPRESENTATIVE PRIOR TO INITIATING ANY MECHANICAL DREDGING ACTIVITIES.
- ALL TRANSFER EQUIPMENT (TRUCKS) SHALL BE MAINTAINED TO PREVENT SPILLAGE DURING MATERIAL TRANSPORT. EQUIPMENT FOUND TO REPEATEDLY ALLOW LEAKAGE DURING TRANSPORT SHALL BE REMOVED FROM THE PROJECT UNTIL SUCH MODIFICATIONS ARE MADE TO ALLOW SPILL FREE TRANSPORT OF THE DREDGE MATERIAL.
- WATER QUALITY CONTROL DEVICES SUCH AS TURBIDITY CURTAINS SHALL BE EFFECTIVELY MAINTAINED SURROUNDING THE MATERIAL OFFLOADING SITE (BOAT RAMP).
- ALL MEASURES SHALL BE TAKEN TO ENSURE EFFLUENT WATERS DO NOT RE-ENTER THE ADJACENT WATERBODY DURING MATERIAL TRANSPORT TO THE LANDFILL FACILITY.
- MATERIAL SPILLAGE OCCURRING OUTSIDE OF THE LANDFILL FACILITY SHALL BE CLEANED IMMEDIATELY UPON DISCOVERY. ALL TRAVEL CORRIDORS AND ROADWAYS SHALL BE INSPECTED AFTER EACH USE TO HELP KEEP THE TRAVEL LANES CLEAN AND MATERIAL FREE.
- AN ATTENDANT SHALL BE PRESENT AT THE MATERIAL OFFLOADING SITE AT ALL TIMES DURING MECHANICAL DREDGING ACTIVITIES. THE ATTENDANT SHALL MONITOR THE PROGRESS OF THE WORK AND SHALL DIRECT INCOMING/OUTGOING TRUCKS TO PLACEMENT LOCATIONS.
- PEDESTRIAN ACCESS SHALL BE PROHIBITED INTO THE MATERIAL OFFLOADING SITE BY A FENCE OR OTHER BARRIER DURING CONSTRUCTION. THE ON-SITE ATTENDANT SHALL MONITOR THE BARRIER AND SHALL STOP WORK IMMEDIATELY IF THE BARRIER FAILS OR APPEARS TO BE FAILING.

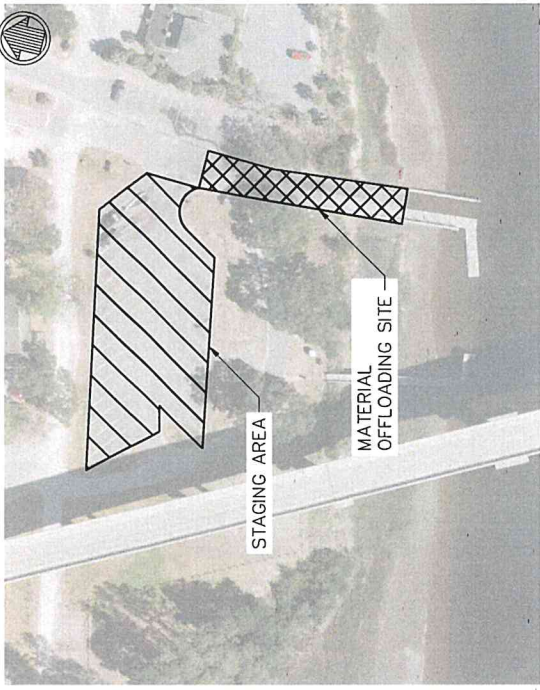
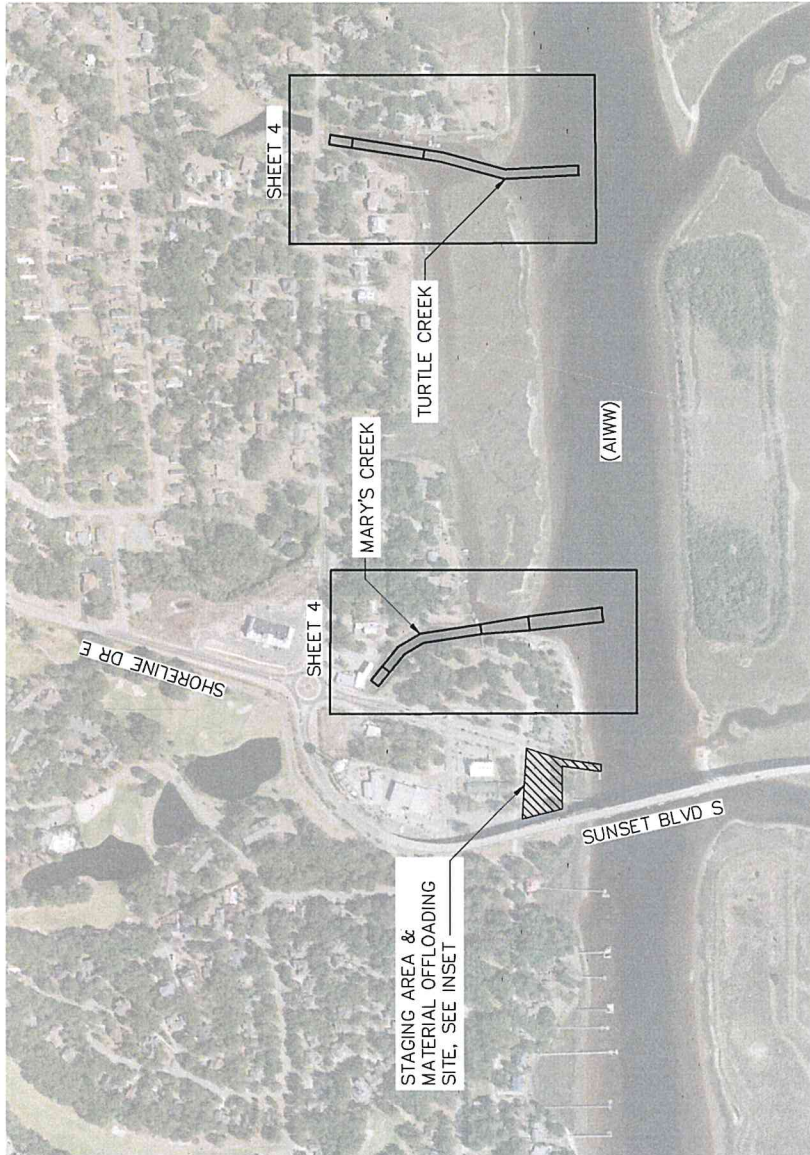
Control Table - Mary's Creek			
Station	Existing	Hardthing	
0+00	2143076.09	48488.81	
5+50	2145873.96	49002.65	
6+00	2146777.43	49233.28	
9+00	2148707.19	49304.44	
10+75	2148548.45	49376.11	
	Estimated Volume		
	Design	6,300 CY	
	Overdepth	1,800 CY	
	Total	8,100 CY	

Control Table - Turtle Creek			
Station	Existing	Hardthing	
0+00	2150634.99	49024.08	
3+50	2150732.81	49358.83	
6+25	2150738.42	49633.77	
11+00	2150697.08	50106.97	
	Estimated Volume	6,300 CY	
	Overdepth	1,500 CY	
	Total	7,800 CY	

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF
MARY'S AND TURTLE CREEK
DATUM: MLW
PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA
DATE: OCTOBER 2018

SHEET TITLE:
GENERAL NOTES AND CONTROL TABLES



INSET
1"=100'

NOTE:

FOR MATERIAL PLACEMENT SITE PLAN, SEE SHEET 7.

KEY MAP
1"=500'

2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF
MARY'S AND TURTLE CREEK

DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: OCTOBER 2018

SHEET TITLE:

KEY MAP

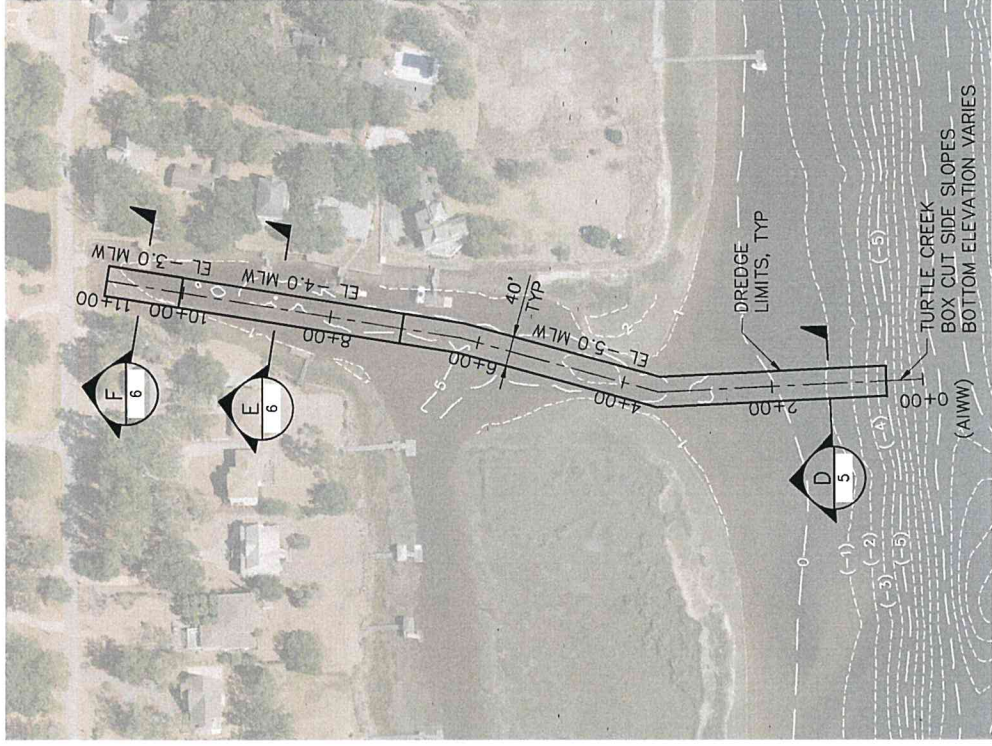
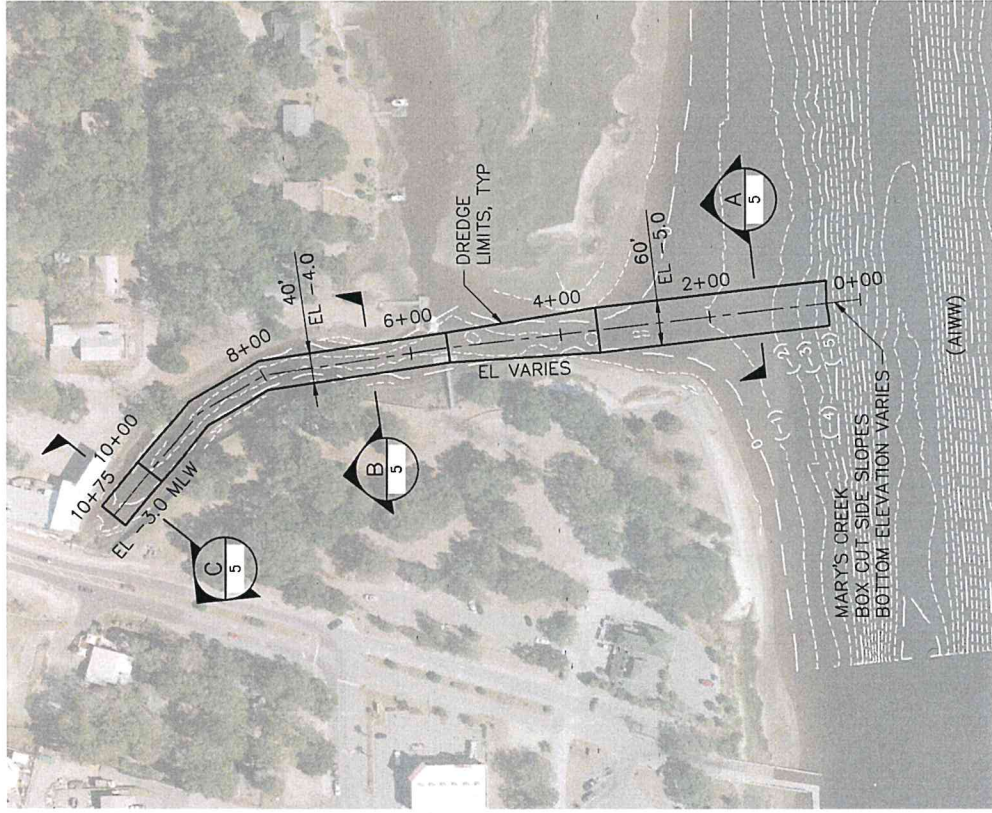


SHEET

3

OF

7



2016 AERIALS BY NC ONEMAP

PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF
MARY'S AND TURTLE CREEK

DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

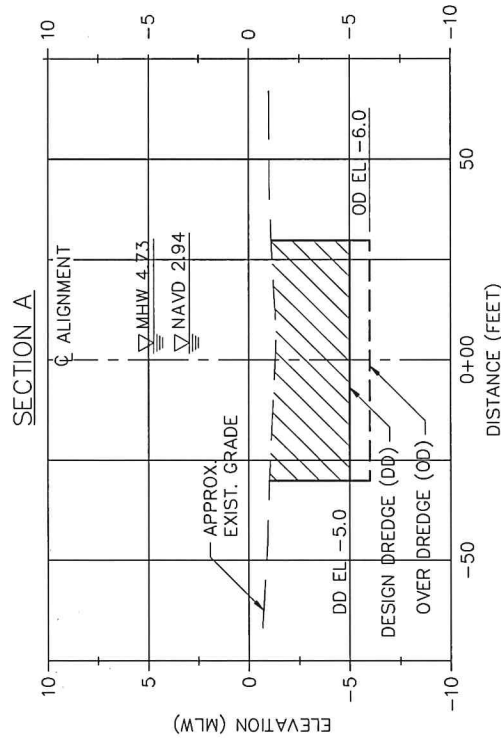
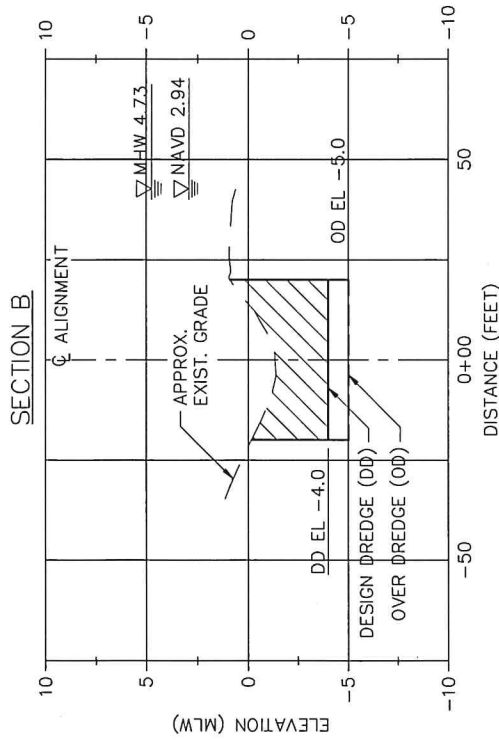
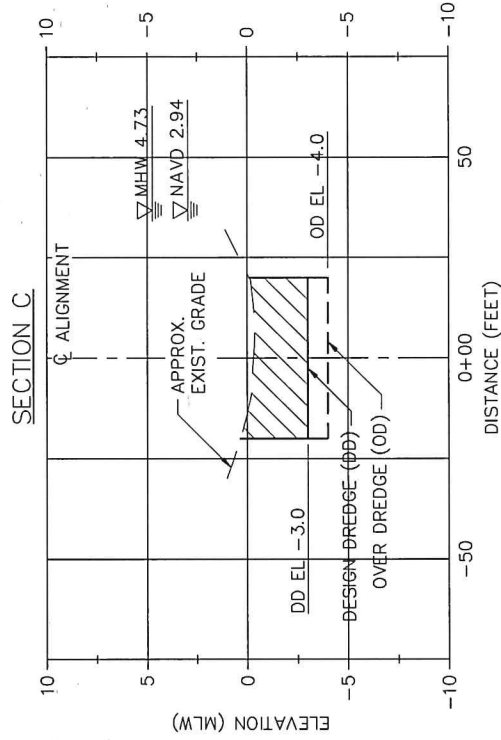
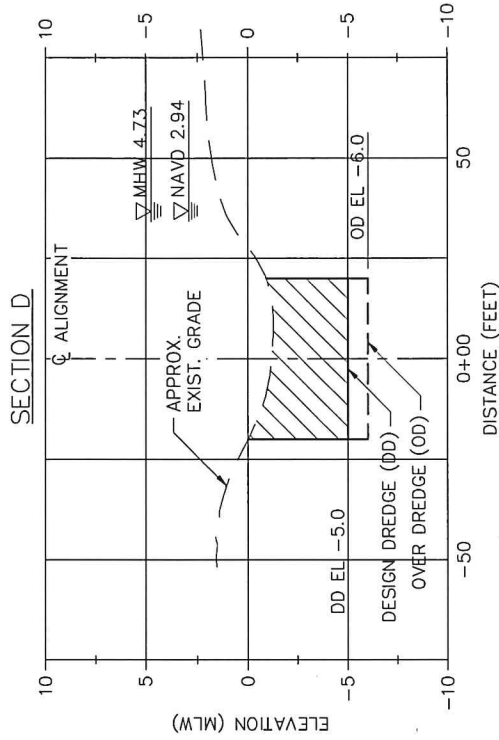
PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: OCTOBER 2018

SHEET TITLE:
DREDGE PLAN



SHEET
4
OF
7



PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:

MAINTENANCE DREDGING OF

MARY'S AND TURTLE CREEK

DATE: OCTOBER 2018

PREPARED BY: MOFFATT & NICHOL

TOWN OF SUNSET BEACH

NORTH CAROLINA

SHEET TITLE:

TYPICAL SECTIONS - SHEET 1 OF 2

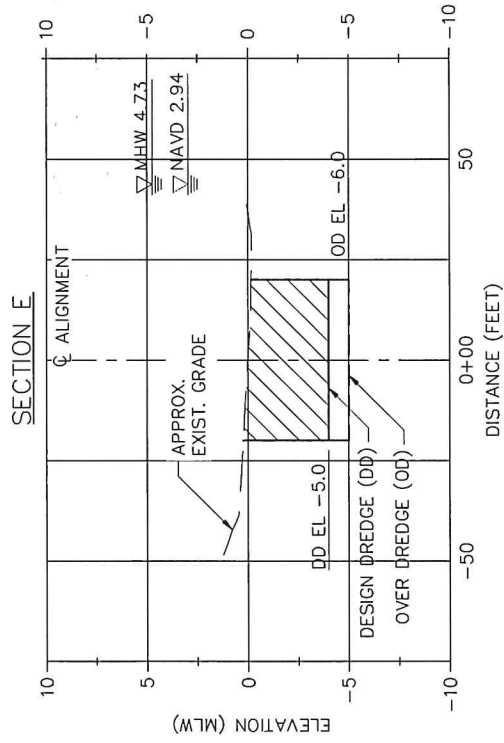
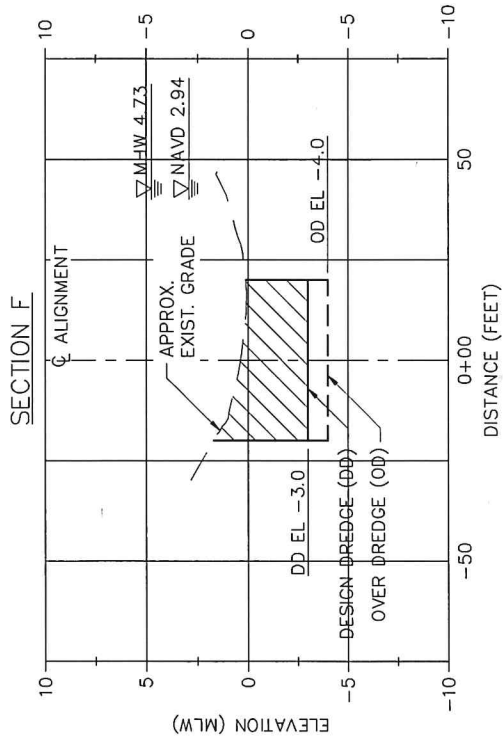
SCALE: 1"=30'

SHEET

5

OF

7



PROJECT TITLE: TOWN OF SUNSET BEACH NAVIGATION PROJECT:
MAINTENANCE DREDGING OF
MARY'S AND TURTLE CREEK

DATUM: MLW

PREPARED BY: MOFFATT & NICHOL

PREPARED FOR: TOWN OF SUNSET BEACH
NORTH CAROLINA

DATE: OCTOBER 2018

SHEET TITLE:

TYPICAL SECTIONS - SHEET 2 OF 2



SHEET

6

OF

7



TRANSPORTATION NOTES:

- CONTRACTOR SHALL PREVENT SPILLAGE OF MATERIAL ONTO PUBLIC LANDS, INCLUDING HIGHWAYS, ROADS, AND PRIVATE PROPERTY.
- THE CONTRACTOR SHALL INSPECT THE TRAVEL ROUTE USED TO TRANSPORT MATERIAL TO THE MATERIAL PLACEMENT SITE AFTER EACH USE. ANY SPILLS OR DREDGE SEDIMENT FOUND ALONG THE TRAVEL ROUTE SHALL BE IMMEDIATELY CLEANED AND REMOVED FROM THE ROADWAY AND TRANSPORTED TO THE MATERIAL PLACEMENT SITE.
- THE CONTRACTOR SHALL ABIDE BY ALL NCDOT STANDARDS FOR HAULING SPOIL MATERIAL ALONG THE ROADWAYS.
- THE CONTRACTOR SHALL CLEAN ALL TRUCKS, WHEELS, AND HAULING EQUIPMENT AS NECESSARY TO PREVENT TRACKING MATERIAL ONTO THE ROADWAYS.

SHEET
7
OF
7

September 28, 2018


Ike Williamson
PO Box 742
Shallotte, NC 28459-0742

Town of Sunset Beach
700 Sunset Blvd. N.
Sunset Beach, NC 28468

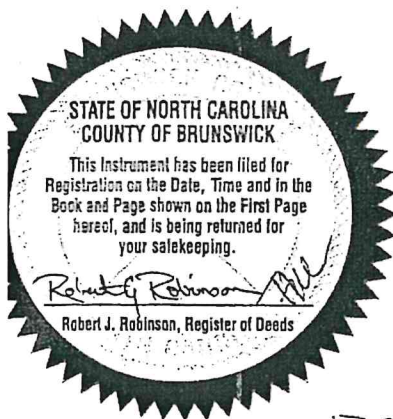
To Whom It May Concern,

This letter of consent is provided to satisfy the requirements of the CAMA Major Permit application for providing written authorization for material placement within an approximate 42 Ac site on State Road 1163 (Old Georgetown Road) in Brunswick County. As the underlying property owner for the referenced lands, I am willing to grant permission to the Town of Sunset Beach (Town) to use the parcel for material placement pertaining to the Town's navigation project (Project).

Please note, prior to the use of the parcel a formal agreement pertaining to additional terms and conditions (Agreement) will be executed with the Town. The Agreement shall document the terms and conditions of the use agreement for the duration and administration of the Project. The terms and conditions will stipulate a tipping fee of not more than \$5.75 / CY for use of the placement islands.

Sincerely, 

Ike Williamson



Ray Williams
Solid Waste

796-7408



REI Reggie Hewitt
TOTAL 20 REV TC# 38
REC# CK AMT CK#
CASH 20 REF BY HLC

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

LAND CLEARING AND INERT DEBRIS LANDFILL NOTIFICATION

Pursuant to 15A NCAC 13B .0563(2)(a), the land owner(s) and operator(s) of any Land Clearing and Inert Debris Landfill under two (2) acres in size shall submit this notification form to the Division prior to constructing or operating the landfill. This form must be filed for recordation in the Register of Deeds' Office. The Register of Deeds shall index the notification under the name of the owner(s) of the land in the county or counties in which the land is located. The Register's seal and the date, book, and page number of recording must be included on this form when submitted to the Division. This notification is not valid to authorize operation of a landfill unless complete, accurate, recorded, and submitted to the Division as required by 15A NCAC 13B .0563(2)(b).

1. Facility Name: IKE Williamson Dump Site
2. Facility location (street address): State RD 1154
City: Shallotte County: Brunswick Zip: 28459
3. Directions to Site: Take Hwy 179 to SR 1154 First paved Rd on Right
4. The land on which this landfill is located is described in the deed recorded in:
deed book: 1095 page: 335 county: Brunswick
5. Name of land owner: Allen Norwood AKA Ike Williamson
6. Mailing address of land owner: P.O. Box 1602
City: Shallotte State: NC Zip: 28459
7. Telephone number of land owner: (910) 443-4874

If the land is owned by more than one person, attach additional sheets with the name, address, and phone number of all additional land owners.

8. Name of operator: IKE Williamson
9. Trade or business name of operator: Clearing + Grading
10. Mailing address of operator: P.O. Box 1602
City: Shallotte State: NC Zip: 28459
11. Telephone number of operator: (910) 443-4874

If the landfill is operated by more than one person, attach additional sheets with the name, address, and phone number of all additional operators.

12. Projected use of land after completion of landfill operations: Green Space



B2519 P0094 12-07-2006 10:47:13.000
Robert J. Robinson
Brunswick County, NC Register of Deeds page 2 of 3

- (8) The facility shall be adequately secured by means of gates, chains, berms, fences, etc. to prevent unauthorized access except when an operator is on duty. An attendant shall be on duty at all times while the landfill is open for public use to assure compliance with operational requirements and to prevent acceptance of unauthorized wastes.
- (9) Access roads shall be of all-weather construction and properly maintained.
- (10) Surface water shall be diverted from the working face and shall not be impounded over waste.
- (11) Solid waste shall not be disposed of in water.
- (12) Open burning of solid waste is prohibited.
- (13) The concentration of explosive gases generated by the facility shall not exceed:
(a) Twenty-five percent of the lower explosive limit for the gases in facility structures.
(b) The lower explosive limit for the gases at the property boundary.
- (14) Leachate shall be properly managed on site through the use of current best management practices.
- (15) Should the Division deem it necessary, ground water or surface water monitoring, or both, may be required as provided for under Rules .0601 and .0602 of this Subchapter.
- (16) A sign shall be posted at the facility entrance showing the contact name and number in case of an emergency and the permit number. The permit number requirement is not applicable for facilities not requiring an individual permit.

Certification by Land Owner:

I certify that the information provided by me in this notification is true, accurate, and complete to the best of my knowledge. The facility siting and disposal operations of this Land Clearing & Inert Debris landfill will comply with the requirements of Sections .0563, .0564 and .0566 of 15A NCAC 13B, North Carolina Solid Waste Management Rules. The facility and operations of this landfill will also comply with all applicable Federal, State, and Local laws, rules, regulations, and ordinances. Where the operator is different from the land owner, I, the land owner, have knowledge of the operator's plans to dispose of solid waste on the land and I specifically grant permission for the operation of the landfill. I understand that both the land owner and operator are jointly and severally liable for improper operations and proper closure of the landfill as provided for by North Carolina General Statute 130A-309.27. I further understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to five thousand dollars (\$5,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this landfill will be required to comply with all such revisions or amendments.

P.N. AKA

IKE Williamson
Print Name (Owner)

G.N. Ike Williamson
Signature (Owner)

12-7-06
Date

North Carolina

Brunswick County

I, Quida H. Hewitt, a Notary Public for said County and State, do hereby certify

that G.N. Ike Williamson personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7 day of Dec, 2006.

Quida H. Hewitt
Notary Public



May 2, 2010

**NORTH CAROLINA
BRUNSWICK COUNTY**

SPECIAL EXCEPTION PERMIT #07-02S GRANTED

Applicant: Glen N. Williamson

Record Owners: Glen and Sarah Williamson

Location: 5399 Oak Tree Lane SW, Shallotte, Brunswick County, NC

Tax Parcel: 2290001402

Acreage: 44.54 acres

Proposed Use of Property: Non-Hazardous Solid and Liquid Waste Disposal Site

Board Meeting Date: January 11, 2007

Approval Date: January 11, 2007

SECTION 1. FINDINGS: Having heard all of the evidence presented at the hearing, the Board finds that the application is complete and finds:

- I. That the proposed use is in keeping with the statement of intent of the zoning district. This is based upon sworn testimony and evidence submitted during the hearing which shows the following:
 - A "Non-Hazardous Solid and Liquid Waste Disposal Site" is permissible within the Rural (RU) zoning district with special exception permits. No specific evidence or testimony was presented that this use will not be in harmony with the surrounding development.
- II. The use, if developed as proposed, will not substantially injure the value of adjoining or abutting property. This is based upon sworn testimony and evidence

From: Gardner, Gary
To: [Neal, Robert](#); [Hiram Marziano](#)
Cc: "Cindi Stephenson"; [Christofferson, Erik D.](#)
Subject: RE: [External] Letter of Request - Sunset Beach Boat Ramp
Date: Friday, October 12, 2018 10:49:54 AM

Robert,

Reviewing the plans will be help with our decision process.

For the time being, while we are not agreeing yet, we are aware of the project and are considering allowing the boat access area to be used for the dredging off-loading.

Gary Gardner // Section Chief
Engineering

NC Wildlife Resources Commission
Mailing Address: 1720 Mail Service Center
Raleigh, NC 27699-1720
Office: 919-707-4091 // Mobile: 919-608-3788 // Fax: 919-707-0162

ncwildlife.org

From: Neal, Robert <rneal@moffattnichol.com>
Sent: Friday, October 12, 2018 9:52 AM
To: Gardner, Gary <gary.gardner@ncwildlife.org>; Hiram Marziano <hmarziano@sunsetbeachnc.gov>
Cc: 'Cindi Stephenson' <cstephenson@sunsetbeachnc.gov>; Christofferson, Erik D. <erik.christofferson@ncwildlife.org>
Subject: RE: [External] Letter of Request - Sunset Beach Boat Ramp

CAUTION: External email. Do not click links or open attachments unless verified. Send all suspicious email as an attachment to [Report Spam](#).

Gary – I can provide permit sketches probably late next week and the plans / permits prob. in early December. However, in order to finish the permit review we need a consent of use agreement to use the site for material off-loading. I understand WRC may choose not to let the Town use the site, but can I use this email chain to show you are aware of the project and consent to the site being considered for use?

Robert Neal
Moffatt & Nichol

272 N. Front Street | Suite 204 | Wilmington, NC 28401
P 910.218.7100 | F 919.781.4869 | C 910.524.3285

From: Gardner, Gary [<mailto:gary.gardner@ncwildlife.org>]
Sent: Friday, October 12, 2018 7:30 AM
To: Hiram Marziano <hmarziano@sunsetbeachnc.gov>

Cc: Neal, Robert <rneal@moffattnichol.com>; 'Cindi Stephenson' <cstephenson@sunsetbeachnc.gov>; Christofferson, Erik D. <erik.christofferson@ncwildlife.org>
Subject: RE: [External] Letter of Request - Sunset Beach Boat Ramp

Hiram,

Once we have all the plans to review, and hopefully the permits, we can make final decisions. Let us know as the permitting process progresses.

Thanks

Gary Gardner // Section Chief
Engineering

NC Wildlife Resources Commission
Mailing Address: 1720 Mail Service Center
Raleigh, NC 27699-1720
Office: 919-707-4091 // Mobile: 919-608-3788 // Fax: 919-707-0162

ncwildlife.org

From: Hiram Marziano <hmarziano@sunsetbeachnc.gov>
Sent: Thursday, October 11, 2018 3:27 PM
To: Gardner, Gary <gary.gardner@ncwildlife.org>
Cc: 'Neal, Robert' <rneal@moffattnichol.com>; 'Cindi Stephenson' <cstephenson@sunsetbeachnc.gov>
Subject: [External] Letter of Request - Sunset Beach Boat Ramp

CAUTION: External email. Do not click links or open attachments unless verified. Send all suspicious email as an attachment to [Report Spam](#).

Mr. Gardner,

Per the conversation today, here is our official letter of request for use of the boat ramp and parking areas for the Town's dredging project.

If you have any questions or need additional information, I will be back in the office on Monday. Have a great weekend.

Hiram J. Marziano, II, CFM
Director of Planning
Town of Sunset Beach
700 Sunset Blvd. N
Sunset Beach, NC 28468

910.579.6297 ext. 1014
www.sunsetbeachnc.gov



Please note: Pursuant to NC General Statutes, Chapter 132, this message and any attachments that may be sent in response to it may be considered public records and therefore are subject to public record requests for review and copying under the Public Records Law.

Email correspondence to and from this sender is subject to the N.C. Public Records Law and may be disclosed to third parties.